

Zachary Kimo Stine

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Updated March, 2021

EDUCATION

Ph.D., Computer and Information Sciences (*in progress*)

University of Arkansas at Little Rock, 2016 - present

Advisor: Nitin Agarwal

Post-Baccalaureate Coursework in Computer Science

University of Arkansas at Little Rock, 2012 - 2016

43 undergraduate hours

B.A., Religious Studies

University of Central Arkansas, 2006 - 2010

Presidential Scholarship | Dean's List

RESEARCH INTERESTS

Computational Social Science, Machine Learning, Natural Language Processing, Cultural Analytics, Digital Humanities, Information Theory, Network Science

AWARDS

HASTAC Scholar, *HASTAC Scholars Fellowship Program*, 2019-2021

Honorable Mention, *NSF Graduate Research Fellowship Program*, 2018

Travel Grants, *Graduate Student Association*, October 2017, April 2018

PUBLICATIONS

Stine ZK, Deitrick JE, Agarwal N (forthcoming) Using Information Divergence to Differentiate Deep from Superficial Resemblances among Discourses. Accepted for the 8th International Conference on Culture and Computing (C&C 2021).

Stine ZK, Deitrick JE, Agarwal N (2020) Comparative religion, topic models, and conceptualization: Towards the characterization of structural relationships between online religious discourses. In: Karsdrop F, McGillivray B, Nerghes A, Wevers M (eds.) *Proceedings of the Workshop on Computational Humanities Research (CHR 2020)*. CEUR Workshop Proceedings vol 2723. 128-148.
<http://ceur-ws.org/Vol-2723/long47.pdf>

Magelinski T, **Stine ZK**, Marcoux T, Agarwal N, Carley KM (2020) Artifacts of Crisis: Textual Analysis of Euromaidan. In: Thomson R, Bisgin H, Dancy C, Hyder A, Hussain M (eds) *Social, Cultural, and Behavioral Modeling. SBP-BRiMS 2020*. Lecture Notes in Computer Science, vol 12268. Springer, Cham. 329-339.

ZK Stine, N Agarwal (2020) Comparative Discourse Analysis Using Topic Models: Contrasting Perspectives on China from Reddit. In: *International Conference on Social Media and Society (SMSociety'20)*. Association for Computing Machinery, New York, NY, USA, 73-84. <https://doi.org/10.1145/3400806.3400816>

Stine ZK, Agarwal N (2019) Characterizing the language-production dynamics of social media users. *Social Network Analysis and Mining* 9(1).

Stine ZK, Agarwal N (2019) A quantitative portrait of legislative change in Ukraine. In: Thomson R, Bisgin H, Dancy C, Hyder A (eds.) *Social, Cultural, and Behavioral Modeling. SBP-BRiMS 2019*. Lecture Notes in Computer Science vol 11549. Springer, Cham. 50-59.

Stine ZK, Khaund T, Agarwal N (2018) Measuring the information-foraging behaviors of social bots through word usage. In: *Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*. Barcelona, Spain. 570-571.

Stine ZK, Agarwal N (2018) Agent-based models for assessing social influence strategies. In: Morales A, Gershenson C, Braha D, Minai A, Bar-Yam Y (eds.) *Unifying Themes in Complex Systems IX. ICCS 2018*. Springer Proceedings in Complexity. Springer, Cham. 138-146.

TEACHING *Independent Study on Natural Language Processing* | Primary instructor* | Spring 2020
Social Computing | Teaching assistant | Spring 2020
Special Topics: Introduction to Natural Language Processing | Primary instructor* | Fall 2020

*Designated as Teaching Assistant for administrative purposes, but acted as sole course designer and primary instructor.

CONFERENCE PRESENTATIONS “Computational Comparative Religion: Methods for Cross-Cultural Analyses.” Presented in the Doctoral Consortium at Social, Cultural, and Behavioral Modeling (SBP-BRiMS 2019). Washington DC. July 2019.
“An Agent-Based Approach to Studying the Relationship Between Ingroup Bias, Signaling, and Ideological Change.” Poster presented at the Computational Social Science conference (CSS). Santa Fe, NM. October 2017.

SERVICE *Reviewer*, ACM International Conference on Web Search and Data Mining (WSDM); Social Network and Analysis Mining (SNAM); Computational and Mathematical Organization Theory (CMOT); IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM); Conference on Computational Social Science (CSS); New Review of Hypermedia and Multimedia; Annual Conference of the Association for Computational Linguistics (ACL); Conference on Empirical Methods in Natural Language Processing (EMNLP)
Program Committee, Computational Social Science (CSS) 2018, 2019, 2020
Track Committee, ACL 2020; EMNLP 2020
Donaghey College Representative and Chairperson of By-Laws Committee, Graduate Student Council | 2017 - 2018 Academic Year

OUTREACH *Speaker*, Episcopal Collegiate School Coding Club | October 2014

Volunteer Judge, Arkansas STEM Festival | March 2017

Speaker, Bryant High School AP Comp. Sci. classes | October 2017

Speaker, Joe T. Robinson High School Breakfast with a Brain series | October 2017

Guest Lecture, "An Introduction to Topic Modeling," Social Computing Course | April 2018

Guest Lecture, "An Introduction to Natural Language Processing," Social Computing Course | March 2019

Seminar Talk, "Machine Learning and the Political Evolution of Ukraine," Donaghey College of Engineering and Information Technology Colloquium Series | March 2019

Seminar Talk, "A comparative study of online religious communities," Donaghey College of Engineering and Information Technology Colloquium Series | August 2019

Two-part Guest Lecture, "An Introduction to Text Mining," Data Science and Technologies Course | March 2020; March 2021

Guest Lecture, "An Introduction to Text Analysis," Social Computing Course | March 2020; March 2021

MEMBERSHIPS

American Association for the Advancement of Science (AAAS) | May 2017

Computational Social Science Society of the Americas (CSSSA) | September 2017

Society for the Scientific Study of Religion (SSSR) | January 2019

EXPERIENCE

University of Arkansas at Little Rock, Department of Information Science

Graduate Research Assistant | August 2017 - present

Graduate Teaching Assistant | January 2020 - December 2020

University of Arkansas at Little Rock, Office of Institutional Research

Research Associate/Lead Programmer Analyst | September 2016 - August 2017

GHD, Inc.

Programmer/Consultant | December 2014 - September 2016

Arkansas Blue Cross Blue Shield

Programmer | June 2014 - December 2014

Claims Review Specialist | October 2011 - June 2014

AmeriCorps City Year

Corps Member | September 2010 - June 2011